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SAILSETC Catalogue Number	14b		
Fitting Description	ball raced gooseneck/kicking strap	Drawing Code	PI 14b copyright SAILSetc 2004
Applications	A Class & other boats of 10 kgs or more (Cat No 14b)		
Contents	1 gooseneck/kicking strap unit		

If you would prefer not to use this boom end, please return it and ask for item 103d (to fit into 12 mm boom) or 103e (to fit into 14 mm boom) and some credit.

The design of the boom end may vary from the illustration. It has a 25 mm step in it so that (in the A Class) additional un-measured sail area can be made use of. It is designed to be glued using epoxy resin to the 14 mm diameter carbon tube main boom. Use 24 hour curing epoxy resin and ensure the matching surfaces of the end of the main boom and the boom end fitting are properly abraded before bonding. To meet the class rules it needs to be faired into the rest of the boom so use epoxy filler to smooth the transition between this item and the rest of the boom.

Coarse adjustment of boom angle can be made using the rigging screw attached near the middle of the lever. This rigging screw can be omitted if you will not need coarse adjustment. Replace it with a length of 1.5 mm diameter stainless steel wire.

The diagram shows the lever arranged vertically. This brings the wire closer to the deck so we are supplying these units with the lever arranged horizontally.

To achieve fine tune of the mainsail twist a lever has been incorporated into the kicking strap design. The 4:1 purchase allows easy adjustment of the boom angle using the rigging screw attached to the end of the lever.

If you want to use radio control to adjust the mainsail twist while sailing you will be able to replace the rigging screw with a block system, 2 x item 62, between the end of the lever and the lower end of the gooseneck.

The body of the gooseneck is formed from carbon fibre and epoxy resin. It is intended that it shall be glued to the mast using epoxy resin. Use 24 hour curing epoxy resin and ensure the matching surfaces of the gooseneck body and mast are properly abraded before bonding. Check that the fitting is properly aligned with the mast before the glue hardens. Do this by removing the shaft and bearings from the body before bonding it and sighting down the hole in the body. If the mast is straight it should be aligned with the top of the mast.

If you are doubtful of the quality of the bond between gooseneck body and mast you can use 75 kg Dyneema to tie the body to the mast as shown. Check that the Dyneema does not foul the shaft of the gooseneck inside the body.



Reinforcement in this region of the mast is useful.

Not shown here - attachment of the kicking strap wire to the boom requires some care. The loads will be large and a simple hook will easily strip out of a hole in the boom. The boom thickness should be at least 2 mm if you are going to rely on a hook/hole attachment. Wrapping the boom with carbon tow and epoxy resin is a wise precaution.